

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000085

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C22B 3/08 // C22B 19:00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C22B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4252775 A (ARMAND L. DAVISTER ET AL), 24 February 1981 (24.02.1981) --	1-2,7-14
A	US 4676828 A (JEAN A. ANDRE), 30 June 1987 (30.06.1987), claim 1 --	1-14
A	WO 0246481 A1 (OUTOKUMPU OYJ), 13 June 2002 (13.06.2002), page 4, line 15 - page 5, line 5 --	1-14
A	US 4157912 A (DONALD R. WEIR ET AL), 12 June 1979 (12.06.1979), column 2, line 46 - column 3, line 10 --	1-14

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

8 June 2004

Date of mailing of the international search report

11-06-2004

Name and mailing address of the ISA/

Swedish Patent Office

Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

Authorized officer

Mårten Hulthén/MP

Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000085

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6340450 B1 (SIGMUND FUGLEBERG ET AL), 22 January 2002 (22.01.2002), abstract --	1-14
A	US 6475450 B1 (KAORU SARUTA ET AL), 5 November 2002 (05.11.2002), abstract --	1-14
A	US 3959437 A (JUSSI KALEVI RASTAS ET AL), 25 May 1976 (25.05.1976), figures 3b,4 -- -----	1-14

INTERNATIONAL SEARCH REPORT

Information on patent family members

30/04/2004

International application No.

PCT/FI 2004/000085

US	4252775	A	24/02/1981	AU	522838	B	01/07/1982
				AU	4301378	A	05/07/1979
				BE	873206	A	17/04/1979
				CA	1128760	A	03/08/1982
				DE	2855589	A	05/07/1979
				ES	476833	A	16/07/1979
				FR	2413468	A,B	27/07/1979
				GB	2013163	A	08/08/1979
				IE	47640	B	16/05/1984
				IE	782581	L	30/06/1979
				IT	1102799	B	07/10/1985
				IT	7831440	D	00/00/0000
				LU	78802	A	20/07/1979
				NL	7900011	A	02/07/1980
				NO	784434	A	03/07/1979

US	4676828	A	30/06/1987	AT	36559	T	15/09/1988
				AU	575944	B	11/08/1988
				AU	4271385	A	05/12/1985
				BG	44209	A	14/10/1988
				CA	1258180	A	08/08/1989
				DD	232933	A	12/02/1986
				DE	3564450	D	00/00/0000
				EP	0166710	A,B	02/01/1986
				ES	543511	A	16/05/1986
				ES	8607418	A	01/11/1986
				FI	80076	B,C	29/12/1989
				FI	852098	A	29/11/1985
				JP	6043619	B	08/06/1994
				JP	60255938	A	17/12/1985
				KR	9103516	B	03/06/1991
				LU	85385	A	29/01/1986
				NO	162772	B,C	06/11/1989
				NO	852086	A	29/11/1985
				RU	2023728	C	30/11/1994
				YU	45260	B	28/05/1992
				YU	89285	A	30/06/1988
				ZA	8504052	A	29/01/1986

WO	0246481	A1	13/06/2002	AU	1717102	A	18/06/2002
				BR	0116028	A	07/10/2003
				CA	2429889	A	13/06/2002
				CN	1479793	T	03/03/2004
				EP	1339883	A	03/09/2003
				FI	20002699	D	00/00/0000
				NO	20032509	A	03/06/2003
				US	2004067183	A	08/04/2004

INTERNATIONAL SEARCH REPORT

Information on patent family members

30/04/2004

International application No.

PCT/FI 2004/000085

US	4157912	A	12/06/1979	AU	516361	B	28/05/1981
				AU	3850978	A	07/02/1980
				BE	869857	A	18/12/1978
				CA	1104837	A	14/07/1981
				DE	2835694	A	01/03/1979
				FR	2400565	A,B	16/03/1979
				GB	2003125	A,B	07/03/1979
				JP	54056022	A	04/05/1979
				ZA	7804376	A	27/06/1979

US	6340450	B1	22/01/2002	AU	725971	B	26/10/2000
				AU	3772497	A	06/03/1998
				DE	69707152	D,T	07/03/2002
				EP	0946766	A,B	06/10/1999
				ES	2162320	T	16/12/2001
				FI	100806	B	00/00/0000
				FI	963154	D	00/00/0000
				KR	2000029886	A	25/05/2000
				NO	990620	A	10/02/1999
				RU	2198942	C	20/02/2003
				WO	9806879	A	19/02/1998
				ZA	9707137	A	23/03/1998

US	6475450	B1	05/11/2002	EP	1122324	A	08/08/2001
				JP	2001214224	A	07/08/2001

US	3959437	A	25/05/1976	AT	105774	A	15/10/1977
				AT	343923	B	26/06/1978
				AU	6542074	A	14/08/1975
				BE	810615	A	29/05/1974
				BR	7400989	D	00/00/0000
				CA	1217638	A	07/02/1987
				DD	109406	A	05/11/1974
				DE	2406394	A,B	29/08/1974
				ES	423107	A	16/04/1976
				FI	50097	B,C	01/09/1975
				FR	2217427	A,B	06/09/1974
				GB	1464447	A	16/02/1977
				IE	38836	B,L	07/06/1978
				IT	1008220	B	10/11/1976
				JP	1033160	C	20/02/1981
				JP	50001030	A	08/01/1975
				JP	55024495	B	30/06/1980
				NL	170024	B,C	16/04/1982
				NL	7401830	A	14/08/1974
				NO	135792	B,C	21/02/1977
				PL	90887	B	28/02/1977
				RO	67585	A	09/09/1982
				SU	1241998	A	30/06/1986
				YU	34774	A	28/02/1982
				ZA	7400871	A	29/01/1975
